

NEW BIBRANCHED COMPOUND AND PREPARATION THEREOF

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Abstract of corresponding document: **EP0621257**

A description is given of a new family of chemical compounds, resulting from fats, having on the linear chain two branchings containing two carbon atoms and corresponding to the general formula $C_{21}H_{39}COOR$ in which R represents a hydrogen atom, a lower alkyl radical or a glyceryl radical. Consideration is more particularly given, among these compounds, to those which correspond to the formulae: $(C_2H_5)_2C_{17}H_{29}COOR$ (I) $(C_2H_5)(C_2H_4)C_{17}H_{30}COOR$ (II) and $(C_2H_5)(C_2H_3)C_{17}H_{31}COOR$ (III) and to those which derive from the above by partial or complete hydrogenation and which correspond to the formulae: $(C_2H_5)_2C_{17}H_{31}COOR$ (IV) $(C_2H_5)(C_2H_4)C_{17}H_{32}COOR$ (V) and $(C_2H_5)_2C_{17}H_{33}COOR$ (VI). The compounds of formulae (I), (II) and (III) can be obtained by addition of ethylene to compounds mainly comprising doubly-unsaturated C18 fatty acids or lower alkyl or glyceryl esters of these acids, in particular oils of plant origin, in the presence of a catalytic system containing anionic rhodium of type $[RhX_4]^{n-}YR'_4$ where X is an anion, preferably a halide anion, Y is a nitrogen atom N^{n+} or a phosphorus atom P^{n+} and R' is preferably a hydrocarbon group. The compounds of the invention can be used especially in compositions based on lubricating agents (lubricants) or emulsifying agents.

